AMENDMENTS TO THE CLAIMS

(IN FORMAT COMPLIANT WITH THE REVISED 37 CFR 1.121)

1. (CURRENTLY AMENDED) An optical data storage medium comprising:

a storage layer having one or more data storage tracks thereon which define a data track pitch, and

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a micro-lens array positioned proximate to said one or more data storage tracks, wherein (i) said micro-lens array comprises a periodic structure defining at least first and second repeating periods, and wherein (ii) said periodic structure induces a virtual track pitch having a pitch which is different than said data track pitch, and (iii) said first repeating period is twice the width of said second repeating period.

- 2. (ORIGINAL) The optical data storage medium of Claim

 1, wherein said micro-lens array comprises first and second interleaved lenses.
- (ORIGINAL) The optical data storage medium of Claim
 wherein said interleaved lenses are spiral lenses.
- 4. (ORIGINAL) The optical data storage medium of Claim 2, wherein said first lens is taller than said second lens.

- . 5. (ORIGINAL) The optical data storage medium of Claim 2, wherein said first lens is wider than said second lens.
- 6. (ORIGINAL) The optical storage medium of Claim 2, wherein said first lens is disposed a first distance from said second lens in a first direction and said first lens is disposed a second distance from said second lens in a second direction.
- 7. (ORIGINAL) The optical data storage medium of Claim

 1, wherein said micro-lens array comprises a single lens.
- 8. (ORIGINAL) The optical data storage medium of Claim 7, wherein said lens is a spiral lens.
- 9. (ORIGINAL) The optical storage medium of Claim 7, wherein a portion of said spiral lens located between first and second adjacent portions is disposed a first distance from an adjacent portion in a first direction and is disposed a second distance from an adjacent portion in a second direction.

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10. (ORIGINAL) The optical data storage medium of Claim 7, wherein a first portion of said single spiral lens is taller than a second portion of said single spiral lens.

- 11. (ORIGINAL) The optical data storage medium of Claim 7, wherein a first portion of said single spiral lens is wider than a second portion of said single spiral lens.
- 12. (ORIGINAL) The optical data storage medium of Claim

 1, wherein said micro-lens array comprises a series of concentric circular lenses.
- 13. (ORIGINAL) The optical data storage medium of Claim 12, wherein a first portion of said lenses have a first height and a second portion of said lenses have a second height.
- 14. (ORIGINAL) The optical data storage medium of Claim 12, wherein a first portion of said lenses have a first width and a second portion of said lenses have a second width.
- 15. (ORIGINAL) An optical storage device comprising:

 a far field optical pick-up unit and an optical data
 storage medium, said optical data storage medium comprising:
 - a storage layer; and

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a plurality of adjacent track portions for storing optical artifacts on said storage layer, wherein said track portions define a radial track pitch of N/2 microns, and wherein said optical artifacts are readable by an optical drive configured for tracking an N micron track pitch.

- 16. (ORIGINAL) The optical storage medium of Claim 15, wherein N is approximately .74 micrometers.
- 17. (ORIGINAL) The optical storage medium of Claim 15, wherein said plurality of adjacent track portions are formed from two interleaved spiral tracks.
- 18. (ORIGINAL) The optical storage medium of Claim 15, wherein said plurality of adjacent track portions are formed from a plurality of unconnected concentric circular tracks.

19. (ORIGINAL) The optical storage medium of Claim 15, wherein said plurality of adjacent track portions are formed from a single spiral track.

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- 20. (ORIGINAL) The optical storage medium of Claim 15, wherein at least some of said adjacent track portions are positioned beneath a micro-lens superstructure, and wherein different portions of said superstructure over different adjacent tracks have different physical characteristics.
- 21. (ORIGINAL) An optical storage medium comprising:

 a first track for recording optical artifacts having a track pitch of N microns;
- a second track for recording optical artifacts having a track pitch of N microns;

wherein said first track and said second track are interleaved such that there is an average track pitch of N/2 microns between said first and second tracks.

- 22. (ORIGINAL) The optical storage medium of Claim 21, wherein said first track is disposed a first distance from said second track in a first direction and said first track is disposed a second distance from said second track in a second direction.
- 23. (ORIGINAL) The optical storage medium of Claim 21, wherein said first and second tracks are positioned beneath a first and second micro-lens, respectively.
- 24. (ORIGINAL) The optical storage medium of Claim 21, wherein said first micro-lens has a first height and said second track has a second height.
- 25. (ORIGINAL) The optical storage medium of Claim 21, wherein said first micro-lens has a first shape and said second micro-lens has a second shape.
- 26. (NEW) The optical data storage medium of claim 1, wherein said medium is read using a conventional DVD drive.